

Product datasheet for **MC218857**

Lactb (NM_030717) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lactb (NM_030717) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lactb
Synonyms:	LACT-1; Lact1; Mrpl56
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >MC218857 representing NM_030717
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTACCGGCTCCTGTCAAGCGTGACAGCTCGGGTCTCGGCCACCGCAGGCCAGCTGGGACGGAGGGC
 GGC CGGGGCGCACAGGCGACCGGGCTGCCTGTGCTGGCCTTGTTGGCCGGCGGCCTGGGGCTCGG
 GCTGGGGCTGGCTCTCGGCGGAAGCTGGTGGTGGGGCTGCGGGGCGCCGTCCCCATTAGTCCCCCGG
 GACCCCGAGGCGTCCGGCACTACCGAGTTATCGCACGAGCAGGCCCTGAGCCCGGGAGCCCGCACACGC
 CTGCGCCGCCAGCAGCCAGGGGCTTCTCCAGAGCCATCGAGAGCAGCCGCGATCTGCTACACCGGATCAA
 GGTAGAGTTGGTCCCGGCATCGTGGTTGGAGTTTCTGTAGATGGAAAAGAAGTCTGGTCAGAAGGT
 TTAGGCTATGCAGACGTGGAGAACCGCTACCTGTAAGCCAGAAACGGTCATGAGAATCGCAAGCATCA
 GAAAAGCCTCACCATGGTGGCTCTGGCTAAACTGTGGGAAGCAGGAAGCTGGATCTGGACCTTCTGT
 GCAGCACTATGTTCCCGAGTTCAGAAAAAGAATACGAGGGTAAAAGTTTCTGTCAACAAGATTA
 CTAAATTCGCATTAAGTGAATTCGTCAATATGAAAAGGACATAAAGAAAGTAAAAGAAGAAAAGCTT
 ATAAAGCCCTGAAGATGGTAAAAGGGACCCGCCACCATCTGACCAAGAAAAAGAACTGAAAAGAAAAGG
 AGGCAAAAACAAGAAAAGAGCGACGCACCGAAAAGCCAAAGTCGAGCAGGACAGCGAAGCCAGATGCCGC
 AGCGCAAGCCAGGCAAGAAAAGAAATGACTTCGAAACAAGGCGAATGATTTGAAAAGAAAAGTTTGAAA
 ATTC AATTGAATCACTAAGATTATTTAAAAATGACCCTTTATTCTTTAAACCTGGTAGTCAGTTTTTGTA
 TTCAACGTTTGGCTATACTCTGCTGGCAGCCATAGTAGAAAGAGCTTCAGGATATAAATATTTGGATTAT
 ATGCAGAAAATTTCCATGATTTGGACATGCTGACAACGTCCAGGAGGAAAACGAGCCAGTGATTACA
 ACAGAGCAAGATTTACGTGTACAATAAAAAGAAACGTCTTGCAACACACCTTACGTGGATAACTCCTA
 TAAATGGGCTGGTGGTGGATTTCTGTCCACAGTGGGTGACCTCCTGAAATTTGAAAACGCAATGCTGTAT
 GGCTACCAAGTTGGGAGTTTAAGAACTCAAATGAAAATCTCTTGCTGGATATCTCAAGCCAGAAAACAA
 TGGTGATGATGTGGACCCAGTCCCTAACACAGAGATGCTCTGGGATAAAGAGGGGAAAATATGCAATGGC
 GTGGGGTGTGGTAGAGAAGAAGCAAACGTACGGATCCTGCAGGAAGCAGCGGCCTACGCTCACATACT
 GGAGGTGCTGTGGTGCCAGTAGTGTCTGCTGGTCTTCTGAAGAACTGGACTCAGAGGCCGTAATA
 ACAAGGTTCCCCACGAGGAATAATCGTCTCTATCATATGCAACATGCAGTCTGTGGGGCTCAATAGCAC
 TGCTTTGAAGATCGCTCTGGAATTTGATAAAGACAGAGCTGAC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_030717
- Insert Size:** 1656 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_030717.1](#), [NP_109642.1](#)

RefSeq Size: 2031 bp

RefSeq ORF: 1656 bp

Locus ID: 80907

UniProt ID: [Q9EP89](#)

Cytogenetics: 9 C

Gene Summary: Mitochondrial serine protease that acts as a regulator of mitochondrial lipid metabolism (By similarity). Acts by decreasing protein levels of PISD, a mitochondrial enzyme that converts phosphatidylserine (PtdSer) to phosphatidylethanolamine (PtdEtn), thereby affecting mitochondrial lipid metabolism (By similarity). It is unclear whether it acts directly by mediating proteolysis of PISD or by mediating proteolysis of another lipid metabolism protein (By similarity). Acts as a tumor suppressor that has the ability to inhibit proliferation of multiple types of cancer cells: probably by promoting decreased levels of PISD, thereby affecting mitochondrial lipid metabolism (PubMed:28329758).[UniProtKB/Swiss-Prot Function]